CLAIMS

1. A micro-droplet generator, comprising:

a chamber, enclosed by a casing;

a spraying plate, having a plurality of spraying holes, placed on one side of said casing;

a piezoelectric plate, mounted inside said chamber, with a fixed end fastened on said casing and a free end performing a bending movement;

a signal connector on one side of said fixed end of said piezoelectric plate, issuing signals that cause said bending movement of said piezoelectric plate; and

a storage tank, containing liquid;

wherein a constant difference of liquid levels in said chamber and said storage tank is maintained, automatically regulating negative pressure in said chamber.

2. A micro-droplet generator, comprising:

a chamber, enclosed by a casing;

a spraying plate, having a plurality of spraying holes, placed on one side of said casing;

a piezoelectric plate, mounted inside said chamber, with a fixed end fastened on said casing and a free end performing a bending movement; and

a signal connector on one side of said fixed end of said piezoelectric plate, issuing signals that cause said bending movement of said piezoelectric plate.

3. The micro-droplet generator according to claims 1 or 2, wherein said piezoelectric plate is made of a plurality of layers of different piezoelectric materials.

4. The micro-droplet generator according to claims 1 or 2, wherein said spraying holes are placed on a lower side of said casing.

5. The micro-droplet generator according to claims 1 or 2, wherein an exchange of liquid and air through said spraying holes takes place, automatically regulating negative pressure in said chamber.

6. The micro-droplet generator according to claims 1 or 2, wherein said spraying holes are gradually narrowing holes and gradually widening holes.

7. The micro-droplet generator according to claims 1 or 2, wherein said spraying holes are gradually narrowing holes, increasing spraying force.

8. The micro-droplet generator according to claims 1 or 2, wherein said spraying holes are gradually widening holes, allowing external air easily to enter said chamber, balancing pressure in said chamber.

9. The micro-droplet generator according to claims 1 or 2, wherein said piezoelectric plate and said spraying plate are placed at a mutual distance, allowing said piezoelectric plate freely to perform said bending movement.

10. The micro-droplet generator according to claims 1 or 2, wherein, when said free end of said piezoelectric plate bends towards said spraying plate, liquid undergoes pressure and squeezed out through said spraying holes.

11. The micro-droplet generator according to claims 1 or 2, wherein, when said free end of said piezoelectric plate bends away from said spraying plate, air is sucked into said chamber through said spraying holes, balancing

negative pressure in said chamber.